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Sapygidae (Hymenoptera, Aculeata) of Turkey

E. YILDIRIM & J. GUSENLEITNER

A b s t r a c t : This study is based upon material collected from different localities of Turkey between 1991-2000, and the other related studies on the species of Sapygidae in Turkey were reviewed. In this study 14 species and subspecies belonged to five genera in the family Sapygidae are recorded. *Sapyga (Sapyga) similis* (FABRICIUS 1793) is new record for the Turkish fauna. The type locality of six species are in Turkey. In addition, some new localities are found for some species which have already been reported in Turkey.

K e y w o r d s : Hymenoptera, Aculeata, Sapygidae, fauna, Turkey.

Introduction

Sapygidae is a widespread family that is absent from the Australian region and contains about 80 species in two subfamilies (Fedtschenkiinae and Sapyginae). Adults are generally predominantly black, often marked with yellow or white. All species are solitary. The larvae are cleptoparasitoids or ectoparasitoids of the larvae of Megachilidae, Anthophoridae and Eumeninae, pupation occurring within the cell constructed by the host (GAULD & BOLTON 1988; GOULET & HUBNER 1993).

GUSENLEITNER (1996, 1997) and KURZENKO & GUSENLEITNER (1994) recorded and described several new species from Turkey.

The material of the family Sapygidae was collected from different localities of Turkey in 1991-2000. All specimens which were collected by Bulirach, Deneš, Ma. u. J. Halada, Hauck and Snizek are placed in the collection of Biologiezentrum des Oberösterreichischen Landesmuseums in Linz.

Results

In this study, 14 species and subspecies of five genera belonged to two subfamilies of Sapygidae were reported in Turkey.

Fedtschenkiinae

Genus *Fedtschenkia* SAUSSURE 1880

Fedtschenkia grossa SAUSSURE 1880

Distribution in Turkey: İçel (Mut) (KURZENKO & GUSENLEITNER 1994).

Distribution in the world: Turkey, East Iran, Turkmenistan, Uzbekistan, Tadjikistan, West Pakistan.

Sapyginae

Genus *Asmisapyga* KURZENKO 1994

Asmisapyga warnckei warnckei KURZENKO 1994

Type locality: Hakkari, Oromar, 10 km NE (KURZENKO & GUSENLEITNER 1994).

Distribution in Turkey: Hakkari (Oromar, Beytüşşebap (Suvari Halil Pass) (KURZENKO & GUSENLEITNER 1994); Kırşehir (Mucur), Gukaribeyca (GUSENLEITNER 1996).

Distribution in the world: Turkey, Syria, Israel, Jordan.

Genus *Monosapyga* PIC 1920

Monosapyga clavicornis (LINNAEUS 1758)

Material examined: Antalya: Akseki Pass, 24.V.1998, 1 ♀, leg. Ma. Halada; Erzurum: Uzundere, Dikyar, 1100 m, 20.VII.1997, 1 ♀, leg. E. Yıldırım.

Distribution in Turkey: Tokat (Turhal), İçel (Tarsus, Çamlıyayla) (KURZENKO & GUSENLEITNER 1994); Samsun (Bafra) (GUSENLEITNER 1997).

Distribution in the world: Turkey, Europe, North Africa, Caucasus.

Genus *Sapyga* LATREILLE 1796

Sapyga (Polosapyga) singla KURZENKO 1994

Type locality: Kars 20 km W Karakurt (KURZENKO & GUSENLEITNER 1994).

Distribution in Turkey: Kars (Sarıkaş, Karakurt) (KURZENKO & GUSENLEITNER 1994).

Distribution in the world: Turkey.

Sapyga (Sapyga) caucasica schevyrevi MORAWITZ 1889

Material examined: Artvin: 15.IX.1997, 2 ♀♀, leg. E. Yıldırım, Yusufeli, 700 m, 7.VII.1992, 1 ♀, leg. E. Yıldırım; Erzurum: Köşk, 2000 m, 20.VI.1996, 1 ♀, leg. E. Yıldırım, Palandöken, 2200 m, 1.VII.1996, 1 ♂, leg. E. Yıldırım, Horasan, Yukarıbademözü, 1950 m, 24.VI.1999, 1 ♂, leg. E. Yıldırım, Oltu, Başaklı, 1800 m, 15.VI.1994, 1 ♀, leg. E. Yıldırım, Çamlıbel, 1750 m, 2.VII.1997, 18 ♀♀, leg. E. Yıldırım, Karakol, 1700 m, 1.VII.2000, 1 ♀, leg. E. Yıldırım, Subatık, 1300 m, 28.VI.2000, 1 ♀, leg. E. Yıldırım, Sütkans, 1650 m, 25.VI.1996, ♀, leg. E. Yıldırım, Olur, Süngübayır, 1750 m, 8.VI.1992, 5 ♀♀, 8 ♂♂, leg. E. Yıldırım, 7.VII.1991, 10 ♀♀, leg. E. Yıldırım, 9.VII.1991, 2 ♀♀, leg. E. Yıldırım, Şenkaya, Tunalı, 1750 m,

25.VI.1994, 2♂♂, leg. E. Yıldırım, 25.VIII.2000, 4♀♀, 2♂♂, leg. E. Yıldırım, Uzundere, Dikyar, 1100 m, 24.V.1994, ♂♂, leg. E. Yıldırım; Kars: Karakurt, 1750 m, 2.VI.1999, 1♀, leg. E. Yıldırım; Van: 5.VII.1997, 2♀♀, leg. Ma. Halada.

Distribution in Turkey: Hakkari (Yüksekova), Gemecik (KURZENKO & GUSENLEITNER 1994).

Distribution in the world: Turkey, North Caucasus.

Sapyga (Sapyga) gusenleitneri KURZENKO 1994

Type locality: Urfa (=Şanlıurfa) (KURZENKO & GUSENLEITNER 1994).

Material examined: Adıyaman: Kahta, 10.VI.1998, 1♀, leg. Ma. Halada; Hatay: Yayladağı, 11.VI.1998, 1♀, leg. Ma. Halada; Gaziantep: 30.V.1998, 5♀♀, leg. Ma. Halada; İçel: Kuzucebelen, 28.V.1998, 1♀, leg. Ma. Halada, Mut, Kirobasi, 19.VI.1997, 1♀, leg. Ma. Halada; Kahramanmaraş: 10.VI.1998, 2♀♀, leg. Ma. Halada; Şanlıurfa: Çaylarbaşı, 2.VI.1998, 1♀, leg. Ma. Halada; Van: Muradiye, 27.VI.1997, 5♀♀, leg. Ma. Halada.

Distribution in Turkey: Şanlıurfa, Antakya (KURZENKO & GUSENLEITNER 1994); Samsun (Bafra) (GUSENLEITNER 1997).

Distribution in the world: Turkey, Israel, Jordan.

Sapyga (Sapyga) morawitzi TURNER 1911

Synonym: *Sapyga (Sapyga) gussakovskii* KURZENKO 1986

Material examined: Sivas: 8.VII.2000, ♀, leg. Ma. Halada; Van: Muradiye, 3.VII.2000, 14♀♀, leg. Ma. Halada.

Distribution in Turkey: Hakkari (Yüksekova, Sat Mt., Vargos, Tanin Pass), Bilecik, Konya (Beyşehir, Meram), İçel (Mut, Sertavul), Şanlıurfa (KURZENKO & GUSENLEITNER 1994); Diyarbakır (Ergani), Horoz Gulu (GUSENLEITNER 1996).

Distribution in the world: Turkey, Greece, Transcaucasus.

Sapyga (Sapyga) mutica KURZENKO 1994

Type locality: İçel, Mut, Sertavul (KURZENKO & GUSENLEITNER 1994).

Material examined: İçel: Mut, Comelek, 29.V.1996, 1♀, leg. Ma. Halada; Konya: Bozkiş, 26.V.1998, 1♀, leg. Ma. Halada.

Distribution in Turkey: İçel (Mut, Sertavul), Nevşehir (Ürgüp) (KURZENKO & GUSENLEITNER 1994).

Distribution in the world: Turkey, Syria.

Sapyga (Sapyga) pulcherrima MORAWITZ 1894

Material examined: Nevşehir: Ürgüp, 13.VI.1998, 1♂, 15.VI.1998, 1♀, leg. Ma. Halada, Göreme, 23.VI.1993, 1♀, leg. K. Deneş.

Distribution in Turkey: İçel (Mut, Sertavul), Sivas (Gürün), Ankara (KURZENKO & GUSENLEITNER 1994); Kırşehir (Mucur), Tokat, Van Lake (GUSENLEITNER 1996); Nevşehir (Göreme) (GUSENLEITNER 1997).

Distribution in the world: Turkey, Turkmenistan, Uzbekistan, Syria.

Sapyga (Sapyga) quinquepunctata (FABRICIUS 1781)

Material examined: Adıyaman: Gölbaşı, 7.VI.1998, 1♀, leg. Ma. Halada, Kahta, 10.VI.1998, 1♀, leg. Ma. Halada; Antalya: Akseki, 19.VI.1998, 1♀, leg. Ma. Halada; Bitlis: 23.VI.1997, 1♀, leg. Ma. Halada; Erzurum: Ilıca, Atlıkonak, 1750 m, 11.VI.2000, 2♂♂, leg. E. Yıldırım; İçel: Mut, Comelek, 29.V.1996, 2♀♀, 18.VI.1997, 1♀, leg. Ma. Halada, Kirobasi, 19.VI.1997, 1♀, leg. Ma. Halada, Silifke, Boğsaki, 28.III.1998, 1♂, leg. Snizek, Uzuncaburç,

28.V.1996, 4 ♀, leg. Ma. Halada; Konya: Bozkır, 26.V.1998, 7 ♂, leg. Ma. Halada; Nevşehir: Ürgüp, 13.VI.1998, 1 ♀, 2 ♂, leg. Ma. Halada; Sivas: Gürün, Mazıkıran Pass, 10.VII.1997, 1 ♀, leg. Ma. Halada; Şanlıurfa: Halfeti, 3.V.1994, 1 ♀, 1 ♂, leg. K. Deneş; Van: 4.VII.1997, 2 ♀, 5.VII.1997, 1 ♂, leg. Ma. Halada.

Distribution in Turkey: İçel (Mut, Sertavul), Konya, Şanlıurfa, İstanbul (Kilyos), Hakkari (Yüksekova), Nevşehir (Ürgüp), Kırşehir (Mucur), Bolu Lake (KURZENKO & GUSENLEITNER 1994); İçel (Mut, Sertavul) (GUSENLEITNER 1996); Samsun (Bafra), Şanlıurfa (Halfeti), Niğde (Çiftahan) (GUSENLEITNER 1997).

Distribution in the world: Turkey, Europe, Syria, Cyprus, Israel, Greece, Malta, Morocco, Jordan, Tunisia.

Sapyga (Sapyga) similis (FABRICIUS 1793)

Material examined: Van: Muradiye, 27.VI.1997, 1 ♀, 3.VII.2000, 1 ♀, leg. Ma. Halada.

Distribution in Turkey: New for the Turkish fauna.

Distribution in the world: Europa, the asian part of Russia to the east up to the Pacific ocean, Mongolia, North China.

Genus Sapygina A. COSTA 1887

Sapygina decemguttata (JURINE 1807)

Material examined: Adıyaman: Gölbaşı, 7.VI.1998, 1 ♀, leg. Ma. Halada; Artvin: Yusufeli, Altıparmak, 1100 m, 5.VI.1994, 1 ♂, leg. E. Yıldırım; İçel: Kuzucebelen, 28.V.1998, 2 ♀, leg. Ma. Halada, Mut, Cornelek, 18.VI.1997, 1 ♀, leg. Ma. Halada, Tarsus, Çamlıyayla, 22.VII.1997, ♀, 2 ♂, leg. D. Hauck; Konya: 25.VI.1998, 2 ♀, leg. J. Halada, Bozkır, 26.V.1998, 1 ♀, leg. Ma. Halada, Sille, 1350 m, 10.VII.1999, 1 ♂, leg. E. Yıldırım; Malatya: Erkenek, 9.VII.1997, 1 ♀, leg. Ma. Halada; Nevşehir: Ürgüp, 13.VI.1998, 1 ♀, 4.VII.1997, 3 ♀, leg. Ma. Halada; Osmaniye: Nur Mts., 4.VII.1993, 1 ♂, leg. F. Bulirach.

Distribution in Turkey: Nevşehir (Ürgüp), Hasanbeyli, Nur Mts. (KURZENKO & GUSENLEITNER 1994).

Distribution in the world: Turkey, Europe, Israel.

Sapygina maloasiatica KURZENKO 1994

Type locality: Namrun (= İçel, Tarsus, Çamlıyayla) (KURZENKO & GUSENLEITNER 1994).

Distribution in Turkey: İçel (Tarsus, Çamlıyayla) (KURZENKO & GUSENLEITNER 1994).

Distribution in the world: Turkey.

Sapygina schwarzi KURZENKO 1994

Type locality: Hakkari, W Tanin-Tanin Pass (KURZENKO & GUSENLEITNER 1994).

Distribution in Turkey: Hakkari (Tanin- Tanin Pass) (KURZENKO & GUSENLEITNER 1994).

Distribution in the world: Turkey.

Zusammenfassung

Es wird ein Überblick über das in den Jahren 1991 bis 2000 an verschiedenen Fundorten in der Türkei gesammelte Material an Sapygiden und anderer Studien über Arten dieser Familie gegeben.

In dieser Veröffentlichung werden 14 Arten und Unterarten aus 5 Gattungen dieser Familie behandelt. *Sapyga (Sapyga) similis* (FABRICIUS 1793) ist ein Erstnachweis für die Türkei. Zusätzliche werden neue Fundorte für die Türkei vorgestellt. Von sechs Arten liegt der Fundort für den Holotypus in der Türkei.

Literature

- GAULD I.D. & B. BOLTON (ed.) (1988): The Hymenoptera. - British Museum (Natural History) Oxford University Press, New York, 332 pp, London.
- GOULET H. & J.T. HUBNER (ed.) (1993): Hymenoptera of the world: An identification guide to families. — Research Branch Agriculture Canada Publication 1894/E, 668 pp, Ottawa.
- GUSENLEITNER J. (1996): Beitrag zur Kenntnis palaearktischer Sapyginae (Sapygidae, Hymenoptera). — Linzer biol. Beitr. 28(1): 23-38.
- GUSENLEITNER J. (1997): Über Funde von Sapygidae aus dem östlichen Mittelmeergebiet (Sapygidae, Hymenoptera). — Linzer biol. Beitr. 29(1): 105-108.
- KURZENKO N.V. & J. GUSENLEITNER (1994): Sapygidae from Turkey, with a key to palaeartic species of Sapyginae (Hymenoptera). — Linzer biol. Beitr. 26(2): 583-632.

Authors' addresses: Assoc. Prof. Dr. Erol YILDIRIM
Atatürk University, Faculty of Agriculture
Department of Plant Protection
TK 25240, Erzurum Turkey
e-mail: yildirimerol@hotmail.com

Dr. Josef GUSENLEITNER
Pfitznerstrasse 31,
A-4020 Linz, Austria
e-mail: j.gusenleitner@utanet.at